United Nations ST/SG/SER.E/837

Secretariat

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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 16 February 2018 from the Permanent Mission of the Republic of Korea to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the Republic of Korea to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information concerning space object KOREASAT 5A (see annex).

V.18-00924 (E) 230218 260218

Please recycle

Annex

Registration data on a space object launched by the Republic of Korea*

KOREASAT 5A

Name of space object	KOREASAT 5A
Name of launching State	Republic of Korea
Designator of space object	2017-067A
Date of launch	30 October 2017 at 1934 hours UTC
Location of launch	Orlando, Florida, United States of America
Basic orbital parameters	
Nodal period	1,436 minutes
Inclination	0 degrees
Apogee	35,786 kilometres
Perigee	35,786 kilometres
General function of space object	Satellite communication and broadcasting services
Other information	113.0 degrees East (geostationary orbit)

* The registration data are reproduced in the form in which they were received.

United Nations ST/SG/SER.E/838

Secretariat

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English
Original: Russian

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 15 February 2018 from the Permanent Mission of the Russian Federation to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the Russian Federation to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration data on space launches by the Russian Federation in January 2018 and also on the space objects that ceased to exist during that period (see annex).

V.18-01184 (E) 050318 060318

Please recycle

Annex

Registration data on space launches by the Russian Federation in January 2018*

1. In January 2018, the Russian Federation did not launch any space objects included, in accordance with established practice and its international obligations, in the register of space objects launched by the Russian Federation and over which it has control.

2. In January 2018, the Russian Federation did not launch any space objects on behalf of foreign clients.

3. At 2400 hours Moscow time on 31 January 2018, no space objects belonging to the Russian Federation had been found to have ceased to exist in Earth orbit in January 2018.

V.18-01184

* The registration data are reproduced in the form in which they were received.

United Nations ST/SG/SER.E/839

Secretariat

Distr.: General
23 February 2018

Original: English

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 19 February 2018 from the Permanent Mission of Finland to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Finland to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information concerning the Aalto-1 educational satellite and the ICEYE-X1 experimental satellite (see annex).

V.18-01010 (E) 270218 280218

Please recycle

Annex

Registration data on space objects launched by Finland*

Aalto-1

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2017-036L
Name of space object	Aalto-1
National designator/registration number	FIN-1-SAT-2017
State of registry	Finland
Other launching States	India
Date and territory or location of launch	23 June 2017 UTC; Satish Dhawan Space Centre, Sriharikota, India
Basic orbital parameters	
Nodal period	94.71 minutes
Inclination	97.45 degrees
Apogee	513 kilometres
Perigee	503 kilometres
General function of space object	Aalto-1 is an educational satellite project with the mission goal of technology demonstration for three payloads: demonstration of a miniature hyperspectral Earth observation camera; demonstration of a miniature radiation-monitoring instrument; and demonstration of an electrostatic deorbiting device

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	Aalto University Foundation
Launch vehicle	Indian Space Research Organization PSLV-XL

ICEYE-X1

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2018-004D
Name of space object	ICEYE-X1
National designator/registration number	FIN-2-SAT-2018

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

State of registry	Finland
Other launching States	India
Date and territory or location of launch	12 January 2018 at 0359 hours UTC; Satish Dhawan Space Centre, Sriharikota, India
Basic orbital parameters	
Nodal period	95 minutes
Inclination	97.56 degrees
Apogee	511 kilometres
Perigee	499 kilometres
General function of space object	Experimental satellite carrying a synthetic aperture radar. Data will be provided commercially

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	Iceye Ltd.
Website	www.iceye.com
Launch vehicle	Indian Space Research Organization PSLV-XL C40

United Nations ST/SG/SER.E/839/Add.1

Secretariat

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25 July 2018

Original: English

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 17 July 2018 from the Permanent Mission of Finland to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Finland to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit additional information concerning the ICEYE-X1 experimental satellite (see annex).

V.18-05169 (E) 300718 310718

Please recycle

Annex

Additional information on a space object registered by Finland*

ICEYE-X1

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2018-004D
Name of space object	ICEYE-X1
National designator/registration number	FIN-2-SAT-2018
State of registry	Finland
Other launching States	India
Date of launch	12 January 2018 at 0359 hours UTC
Basic orbital parameters	
Nodal period	94.61 minutes
Inclination	97.53 degrees
Apogee	511 kilometres
Perigee	499 kilometres
General function of space object	Experimental satellite carrying a synthetic aperture radar. Data will be provided commercially.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Change of status in operations	
Date when space object is no longer functional	12 June 2018 0000 hours 0 seconds UTC
Space object owner or operator	Iceye Ltd.
Website	www.iceye.com
Launch vehicle	Indian Space Research Organization PSLV-XL C40

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

United Nations ST/SG/SER.E/840

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Original: English

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note Verbale dated 7 March 2018 from the Permanent Mission of Denmark to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Denmark to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information concerning space objects Ulloriaq and GOMX-4B, launched into orbit on 2 February 2018 at 0751 hours, 0 seconds UTC (see annex).

V.18-01420 (E) 140318 150318

Please recycle

Annex

Registration data on space objects launched by Denmark*

Ulloriaq

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2018-015F
Name of space object	Ulloriaq
National designator/registration number	2018-DK-01
State of registry	Denmark
Other launching States	China
Date and territory or location of launch	2 February 2018 at 0751 hours 0 seconds UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	94.5 minutes
Inclination	97.3 degrees
Apogee	515.8 kilometres
Perigee	489.0 kilometres
General functions of space object	Ulloriaq is a 6U satellite working in a tandem operation with another 6U satellite, GOMX-4B. Ulloriaq is equipped with an Automatic Identification System (AIS) payload, Automatic Dependent Surveillance-Broadcast (ADS-B) payload, an X-band receiver and a visual camera. The Ulloriaq demonstration is part of an analysis seeking to identify best practices and future efforts to reinforce the Danish Defence's surveillance of the Arctic within Denmark.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website	www.gomspace.com
Space object owner or operator	GomSpace A/S, Langagervej 6, 9220 Aalborg East, Denmark
Launch vehicle	Long March 2D
Other information	Estimated date of deorbit: in 2031

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

GOMX-4B

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2018-015E
Name of space object	GOMX-4B
National designator/registration number	2018-DK-02
State of registry	Denmark
Other launching States	China
Date and territory or location of launch	2 February 2018 at 0751 hours 0 seconds UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	94.5 minutes
Inclination	97.3 degrees
Apogee	515.3 kilometres
Perigee	488.9 kilometres
General functions of space object	GOMX-4B is a 6U satellite working in a tandem operation with another 6U satellite, Ulloriaq. GOMX-4B is equipped with an Automatic Dependent Surveillance-Broadcast (ADS-B) payload, a star-tracker, a propulsion module, a radiation hardness assurance (RHA) board and a hyperspectral camera. The purpose of the tandem operation is to demonstrate inter-satellite linking and station-keeping capabilities (satellite separation and orbit control) through GOMX-4B's propulsion system.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website	www.gomspace.com
Space object owner or operator	GomSpace A/S, Langagervej 6, 9220 Aalborg East, Denmark
Launch vehicle	Long March 2D
Other information	Estimated date of deorbit: in 2031

United Nations ST/SG/SER.E/841

Secretariat

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15 May 2018
English
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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 12 March 2018 from the Permanent Mission of Algeria to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Algeria to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex) and General Assembly resolution 62/101 of 17 December 2007, has the honour to transmit information for space object Alcomsat-1, launched on 11 December 2017 (see annex).

V.18-03232 (E) 170518 180518

Please recycle

Annex

Registration data on a space object launched by Algeria*

Alcomsat-1

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2017-078A
Name of space object	Alcomsat-1
National designator/registration number	001T-2017-DZ
State of registry	Algeria
Date and territory or location of launch	11 December 2017 at 0040 hours 0 seconds UTC; Xichang, China
Basic orbital parameters	
Nodal period	1,436.1 minutes
Inclination	0 degrees
Apogee	35,806.1 kilometres
Perigee	35,780.9 kilometres
General function of space object	Satellite telecommunications on Ku-band and Ka-band and geolocation on L-band

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Geostationary position	+24.8 degrees West
Space object owner or operator	Algerian Space Agency
Launch vehicle	Long March LM3BE

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

United Nations ST/SG/SER.E/842

Secretariat

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24 April 2018
English
Original: Russian

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 27 March 2018 from the Permanent Mission of the Russian Federation to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the Russian Federation to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit registration data on space launches by the Russian Federation for February 2018 and also on the space objects that ceased to exist during that period (see annex).

V.18-02664 (E) 250418 260418

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Annex

Registration data on space launches by the Russian Federation in February 2018*

1. In February 2018, the following space objects under the jurisdiction and control of the Russian Federation were launched:

			Basic orbital characteristics				
Number	*Name of space object*	*Date of launch*	*Apogee (km)*	*Perigee (km)*	*Inclination (degrees)*	*Period (minutes)*	*General function of space object*
3487-2018-001	Kanopus-V No. 3[a]	1 February 2018	529.3	480.6	97.3	99.5	Earth remote sensing
3488-2018-001	Kanopus-V No. 4[a]	1 February 2018	524.1	478.6	97.3	94.5	Earth remote sensing
3489-2018-002	Progress MS-08, launched by a Soyuz-2-1a carrier rocket from the Baikonur launch site	13 February 2018	241.2	193.1	51.7	88.5	Delivery to the International Space Station of scientific equipment and fuel, water, oxygen, air, food and other consumable materials required for the crew, scientific experiments and operation of the Station

[a] Launched by a single Soyuz-2-1a carrier rocket with a Fregat booster from the Vostochny launch site.

2. In February 2018, the Russian Federation launched the following space objects on behalf of foreign clients:

On 1 February 2018, the following objects, together with the Russian Earth remote-sensing satellites Kanopus-V No. 3 and Kanopus-V No. 4, were launched by a Soyuz-2-1a carrier rocket with a Fregat booster from the Vostochny launch site: four S-NET satellites for technological applications (Germany); four LEMUR satellites for the collection of data generated by a system for the automatic identification of marine vessels (United States of America); and the D-Star One satellite for technological applications (Germany).

3. The following space object ceased to exist in February 2018 and was no longer in Earth orbit as at 2400 hours Moscow time on 28 February 2018:

2017-054A (Soyuz MS-06): descent module landed at a predetermined location with members of an International Space Station expedition on 28 February 2018.

V.18-02664

* The registration data are reproduced in the form in which they were received.

United Nations ST/SG/SER.E/843

Secretariat

Distr.: General
24 April 2018

Original: English

Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 29 March 2018 from the Permanent Mission of Uruguay to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Uruguay to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information on space objects NUSAT 3, NUSAT 4 and NUSAT 5 (see annex).

V.18-02645 (E) 250418 260418

Please recycle

Annex

Registration data on space objects launched by Uruguay*

NUSAT 3

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2017-034C
Name of space object	NUSAT 3
National designator/registration number	2017-034C
State of registry	Uruguay
Other launching States	China
Date and territory or location of launch	15 June 2017 at 0300 hours 0 seconds UTC; Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	97 minutes
Inclination	42.99 degrees
Apogee	541 kilometres
Perigee	541 kilometres
General function of space object	Commercial Earth observation

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website	www.satellogic.com
Space object owner or operator	Owner: URUGUS SA (Uruguay) Operator: Satellogic SA (Argentina)
Launch vehicle	Long March 4B

NUSAT 4

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2018-015D
Name of space object	NUSAT 4
National designator/registration number	2018-015D
State of registry	Uruguay
Other launching States	China
Date and territory or location of launch	2 February 2018 at 0751 hours 0 seconds UTC; Jiuquan Satellite Launch Centre, China

* The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

Basic orbital parameters	
Nodal period	95 minutes
Inclination	97.32 degrees
Apogee	504 kilometres
Perigee	500 kilometres
General function of space object	Commercial Earth observation

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website	www.satellogic.com
Space object owner or operator	Owner: URUGUS SA (Uruguay) Operator: Satellogic SA (Argentina)
Launch vehicle	Long March 2D

NUSAT 5

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2018-015K
Name of space object	NUSAT 5
National designator/registration number	2018-015K
State of registry	Uruguay
Other launching States	China
Date and territory or location of launch	2 February 2018 at 0751 hours 0 seconds UTC; Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	95 minutes
Inclination	97.32 degrees
Apogee	504 kilometres
Perigee	500 kilometres
General function of space object	Commercial Earth observation

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Website	www.satellogic.com
Space object owner or operator	Owner: URUGUS SA (Uruguay) Operator: Satellogic SA (Argentina)
Launch vehicle	Long March 2D